AMENDMENTS TO THE CLAIMS

This listing of the claims replaces all prior versions, and listings, of claims in the application:

LISTING OF CLAIMS

- 1. (Original) A method of treatment or prevention of damage due to radiation exposure comprising administering to a subject in need of such treatment an effective amount of a composition comprising 1) a compound including a radiation damage-inhibiting polypeptide comprising amino acid sequence LKKTET, a conservative variant of LKKTET, an actin-sequestering agent, an anti-inflammatory agent; 2) an agent which stimulates production of said compound in said subject; 3) an agent which regulates said compound in said subject; or 4) an antagonist of said compound, so as to inhibit radiation damage in said subject.
- 2. (Original) The method of claim 1 wherein said compound comprises a polypeptide comprising amino acid sequence LKKTET, or a conservative variant thereof.
- 3. (Original) The method of claim 1 wherein said polypeptide comprises amino acid sequence KLKKTET or LKKTETQ, Thymosin β 4 (T β 4), an N-terminal variant of T β 4, a C-terminal variant of T β 4, an isoform of T β 4, a splice-variant of T β 4, oxidized T β 4, T β 4 sulfoxide, lymphoid T β 4 or pegylated T β 4.
- (Original) The method of claim 1 wherein said compound is thymosin beta 4 (Tβ4).
- (Currently amended) The method of claim 1 wherein said compound is present in an injectable carrier, a gel, cream, paste, lotion, spray, salve, suspension, dispersion, hydrogel or ointment.
- (Original) The method of claim 1 wherein said compound is delivered systemically to said subject by injection, infusion, pulmonary delivery, or orally, rectally, nasally, transdermally, or a combination thereof.

- (Original) The method of claim 1 wherein said agent is an antibody.
- (Original) The method of claim 1 wherein said antagonist is an anti-sense form
 of said compound.
- (Original) The method of claim 1 comprising administering said compound to said subject so as to protect radiosensitive stem cells in said subject.
- (Original) The method of claim 1 wherein said stem cells are in blood, bone marrow or gastrointestinal tract tissue of said subject.
- ${\bf 11.} \quad \hbox{(Original) The method of claim 1 wherein said composition is administered} \\ {\bf systemically.}$
- (Original) The method of claim 1 wherein said composition is administered topically.
- (Original) The method of claim 1 wherein said composition is administered enterally.
 - 14. (Original) The method of claim 1 wherein said radiation is ionizing radiation.
- 15. (Original) The method of claim 1 further including a step of administering radiation to a target area of said subject so as to treat cancer or a tissue abnormality in said target area, wherein said composition is administered to said subject before, during or after administration of said radiation to said target area, or a combination thereof, so as to inhibit radiation damage in said subject outside said target area.
- (Original) The method of claim 15 wherein said composition prevents induced apoptosis of cells of said subject outside said target area.
- (Original) The method of claim 3 wherein said composition is contained in a
 formulation at a concentration within a range of about 0.001-10% by weight for
 administration to said subject.

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18. (Withdrawn) A substance for use in manufacturing a medicament for treatment or prevention of damage due to ionizing radiation exposure, comprising 1) a compound including a radiation damage-inhibiting amino acid sequence LKKTET, a conservative variant of LKKTET, an actin-sequestering agent, an anti-inflammatory agent; 2) an agent which stimulates production of said compound in said subject; 3) an agent which regulates said compound in said subject; or 4) an antagonist of said compound, so as to inhibit radiation damage in said subject.